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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/560,268	04/26/2000	Whonchee Lee	150.0056 0102	2517
7:	590 02/04/2002			
Attn Mark J Gebhardt Mueting Raasch Gebhardt PA PO Box 581415			EXAMINER	
			DEO, DUY VU	
Minneapolis, M	IN 55458-1415		ART UNIT	PAPER NUMBER
		•	1765 DATE MAILED: 02/04/2002	
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Please find below and/or attached an Office communication concerning this application or proceeding.

•		Applicati n N .	Applicant(s)			
	aa Aatian Caaraa	09/560,268	LEE ET AL.			
`	ce Action Summary	Examiner	Art Unit			
		DuyVu n Deo	1765			
The MA Period for Reply	AILING DATE of this communication a	ppears on the cover sh t with th	ne correspondence address			
THE MAILING - Extensions of time after SIX (6) MOI - If the period for recommender of the seriod for recommender of the seri	ED STATUTORY PERIOD FOR REF B DATE OF THIS COMMUNICATION be may be available under the provisions of 37 CFR NTHS from the mailing date of this communication. eply specified above is less than thirty (30) days, a reply is specified above, the maximum statutory peri- ithin the set or extended period for reply will, by stated by the Office later than three months after the maternal managing that the set of	N. 1.136(a). In no event, however, may a reply be eply within the statutory minimum of thirty (30) and will apply and will expire SIX (6) MONTHS to tute, cause the application to become ABANDO	pe timely filed days will be considered timely. from the mailing date of this communication. DNED (35 U.S.C. § 133).			
1)⊠ Respo	nsive to communication(s) filed on 2	9 November 2001 .				
		This action is non-final.				
	his application is in condition for allo in accordance with the practice und					
Disposition of CI	•	or an parto quajro, root ora;	,, 100 0.0. 210.			
	64-93 is/are pending in the applica	tion				
4a) Of the above claim(s) is/are withdrawn from consideration.						
<u></u>	is/are allowed.	ann nom consideration.				
	64-93 is/are rejected.					
•	is/are objected to.					
	are subject to restriction and	/or election requirement				
Application Pape		or orodion roquiromonic.				
	ification is objected to by the Exami	ner				
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	nt may not request that any objection to					
	osed drawing correction filed on	• , ,	` '			
	ved, corrected drawings are required in		,, -			
12) ☐ Th e oath	or declaration is objected to by the I	Examiner.				
Priority under 35	U.S.C. §§ 119 and 120					
13) Acknowl	edgment is made of a claim for fore	gn priority under 35 U.S.C. § 119	9(a)-(d) or (f).			
a)	☐ Some * c)☐ None of:	•				
1.□ Ce	ertified copies of the priority docume	nts have been received.				
2. 🗌 Ce						
	opies of the certified copies of the pr application from the International E ttached detailed Office action for a li	Bureau (PCT Rule 17.2(a)).	•			
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Attachment(s)		7				
Notice of Reference Notice of Draftsp	nces Cited (PTO-892) erson's Patent Drawing Review (PTO-948) osure Statement(s) (PTO-1449) Paper No(s)	5) D Notice of Inform	nary (PTO-413) Paper No(s) al Patent Application (PTO-152)			
S. Patent and Trademark Office TO-326 (Rev. 04-01)		Action Summary	Part of Paper No. 11			

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DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 64-93 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tsai et al. (US 5,486,266) of Thiel (US 4,316,765).

Tsai teaches a composition for removal of contaminating layer on a substrate containing HCl (mineral acid), H2O2, and water in ratio of 1:1:6-10 (col. 4, line 6-8). This would read on claimed etching composition because it removes or etches a layer on the substrate (col. 1, line 57-col. 2, line 21). Tsai teaches that less concentrated versions of these chemical could be used and adjusting the concentration of chemicals in the solution accordingly (col. 3, line 26-30). Unlike claimed invention, he doesn't describe DI water. Using DI water to prepare similar chemical bath is well known by one skilled in the art as shown by Thiel (col. 2, line 56), and would have been obvious, so that the chemical bath doesn't contain other contamination.

Referring to claims 68, 72, 73, 77, 79, 84, 89 this composition would inherently have a metal etch as that of claim 61 since it contains the same chemicals and with the same ratio as that of claims.

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Response to Arguments

3. Applicant's arguments filed 11/29/01 have been fully considered but they are not persuasive.

In response to applicant's argument that the references fail to show certain features of applicant's invention, it is noted that the features upon which applicant relies (i.e., Tsai doesn't describe using a 29% concentration of H2O2 and a 38% concentration of HCL) are not recited in the rejected claim(s). Although the claims are interpreted in light of the specification, limitations from the specification are not read into the claims. See *In re Van Geuns*, 988 F.2d 1181, 26 USPQ2d 1057 (Fed. Cir. 1993).

Furthermore, these chemicals are diluted with water to have a final concentration in a ratio of 1:1:35-1:1:5 (acid:peroxide:water) as shown in the specification in page 10, line 8-14. Therefore any commercially available concentration of these chemicals can be used and will be diluted to have a final concentration or ratio as above. Since Tsai's final concentration or ratio, 1:1:6-10, of these chemicals in the solution reads on claimed ratio, 1:1:5-35; therefore, his composition would have the same etch rates for the metal as that of the claims.

Conclusion

5. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE

MONTHS from the mailing date of this action. In the event a first reply is filed within TWO

MONTHS of the mailing date of this final action and the advisory action is not mailed until after

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the end of the THREE-MONTH shortened statutory period, then the shortened statutory period

will expire on the date the advisory action is mailed, and any extension fee pursuant to 37

CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event,

however, will the statutory period for reply expire later than SIX MONTHS from the date of this

final action.

6. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to DuyVu n Deo whose telephone number is 703-305-0515.

DVD

December 28, 2001

PRIMARY EXAMINER

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